

14
Speculum Uranicum :

Or, A N

Almanack and Prognostication

For the Year of our Lord, 1680.

Being *BISSEXTILE* or Leap-year :

And from the Creation of the World, 5629.

Wherein is contained the state of the Year,

the Eclipses, Lunations, Conjunctions, and Aspects of the Planets throughout the whole year, and Rules to find the Rising, Southing and Setting of some of the principal, noted fixed Stars, whereby might be known the true hour of the Night at all times, when the Stars are to be seen.

Calculated and referred to the Famous City of

LONDON, whose Longitude is 24 degrees, 20 minutes.

Latitude 51 degrees, 32 minutes, and may serve without any sensible error, the whole Kingdom of England.

By *THOMAS FOWLE*, Practitioner
in Astronomy.

*The Works of the LORD are Great, and ought to be sought out
of all them that Love them, Psal. iij. ver. 2.*

L O N D O N,

Printed for the Company of Stationers, 1680.



Vulgar Notes according to the JULIAN
Account used here in *England* for this
Year, 1680.

The Golden Number	_____	9
The Dominical Letter	_____	DC
The Cycle of the Sun	_____	9
The Roman Indiction	_____	3
The Number of Direction	_____	21
The Epact	_____	9
Shrove-Sunday	_____	February 22
Ash-Wednesday	_____	February 25
Septuagesima	_____	February 8
Sexagesima	_____	February 15
Quadragesima	_____	February 29
Easter Day	_____	April 11
Rogation Sunday	_____	May 16
Ascension Day	_____	May 20
Whitsunday	_____	May 30
Trinity Sunday	_____	June 6
Advent Sunday	_____	November 28

Hillary Term beginneth the 23 day of *January*, and
endeth 12 day of *February*.

Easter Term beginneth the 28 day April, and endeth
the 24 day of *May*.

Trinity Term beginneth the 11 day of *June*, and
endeth the 30 day of the same Month.

Michaelmas Term beginneth the 23 day of *October*, and
endeth the 29 day of *November*.

The Names and Characters of the 12 Signs
of the *ZODIACK*, with a description
of what part or member of the Body
each Sign governeth.

♈ <i>Aries</i> , Head and face.	♎ <i>Libra</i> , Reins and loyns.
♉ <i>Taurus</i> , Neck and throat.	♏ <i>Scorpio</i> , Secret members.
♊ <i>Gemini</i> , Arms & should.	♐ <i>Sagittarius</i> , Thighs.
♋ <i>Cancer</i> , Breast & stomach	♑ <i>Capricornus</i> , Knees.
♌ <i>Leo</i> , Heart and back.	♒ <i>Aquarius</i> , Legs.
♍ <i>Virgo</i> , Bowels and belly.	♓ <i>Pisces</i> , Feet.

Names and Characters of the Seven Planets,
with the Head and Tail of the *Dragon*.

♄ Saturn.	♏ Dragons Head.
♃ Jupiter.	
♂ Mars.	
☉ Sol	
♀ Venus.	
☿ Mercury.	
♁ Luna.	
	♐ Dragons Tail.

A Table of the Aspects.

♌ Conjunction ———	0.	<i>Novilunium.</i>
* Sextile ———	2	<i>Corniculata.</i>
□ Quartile ———	3	<i>Semiplena.</i>
Δ Trine ———	4	<i>Gibbus.</i>
♍ Opposition ———	6	<i>Flebilunium.</i>

The Face of the Year unmasked :

Or,

The several Columns in each Month explained.

The year consisting of twelve Months, is contain'd in 12 Pages, each page is divided into 6 Columns. In the first of which is placed the days of the Month.

The second sheweth the days of the Week, D C being the Dominical Letters.

The third containeth the fixed and moveable, Feasts the beginning and ending of the terms of Law.

The fourth sheweth the place of the Moon in Signs and degrees every day at Noon.

The fifth sheweth the mutual Aspects of the Planets, the *Apogæon* and *Perigæon* of the Moon, and other things worth the noting.

In the sixth and last Column is noted the Inclination of the Weather, deduced from the Aspect of the Planets, and when the Planets will be with the Moon.

V E N U S that Glorious Planet, will be our bright Morning Star, rising before the SUN from the beginning of this Year unto the twenty sixth day of August; at which time she makes her Conjunction with the Sun, and so becomes Occidental, and our Evening Star until the eighteenth day of June, 1681.

January hath xxxi days.

Full Moon the 5 day, at 11 a Clock in the night.
 Last quarter the 13 day, at 8 a clock in the evening.
 New Moon the 21 day, at 1 a clock afternoon.
 First quarter the 28 day, at 8 in the morning.

1 a	New years d.	Tau. 24	♂ flat. ad ret.	The M. begins
2 b	Octav. Steph	Gem. 8	* ♀ ♀ 4 p.	with cold rain
3 c	Meliorus	Gem 22		or snow.
4 d	Croniack, M.	Canc. 6	☉ 24. 22 w	h is with ☾
5 e	Edw. Conf.	Can. 18	☐ 4 ♂ 3 p.	Temperate w.
6 f	Epiphania.	Leo 3		the season con-
7 g	Ced B. Lond.	Leo 17		sidered.
8 a	Will. B. York	Leo 29	♂ ♂ ♀ 5 p.	Great high wi.
9 b	Adrian Abbot	Virg. 12	☐ 4 ♀ 8 m.	and rain about
10 c	Paul Erem.	Vir. 24	♂ ☉ ♀ Mane	☉ in ☾
11 d	1 past Epiph.	Libr. 6	☐ 4 ☉ 11 p.	this time may
12 e	Archadius	Libr 18	☾ with the ☉	be expected.
13 f	Reinoldus	Libr. 30	☾ Apogee	Some remiss.
14 g	Hillary P.	scor. 12		of cold.
15 a	Mauritius	scor. 24	☉ 5. 35 ☾	
16 b	Marcell. p. m.	sagit. 6		
17 c	Anthony Ab.	Sag. 18		
18 d	2 past Epiph.	Capr. 1		♀ is with ☾
19 e	Wolstannus	Cap. 14	* ♀ 4 9 p.	longe rain and
20 f	Fab. & Seb.	Cap 27		♂ w. ☾ (a tur-
21 g	Agnes V.M.	Aqu. 11		♂ w. ☾ (solent
22 a	Vincent M.	Aqu. 25	♀ Elon. M. à ☉	air about this
23 b	Term begins	Pisc. 9	♂ flat. ad dir.	time.
24 c	Timothy	Pisc. 24		
25 d	S. Pauls Conv.	Aries 8	☾ with ♀	
26 e	Polycarpus	Ari. 23	☾ perigee	
27 f	Chrysof. b c.	Taur 7		☾ is with ☾
28 g	C. rolus M.	Tau. 21	♂ ♀ 9 p.	fair, snow or
29 a	Gildas Abbot	Gem. 5	☉ 19. 48 ☾	cold rain
30 b	N. Charles Lan	Gem. 18	☐ 4 ♀ o.	The M. ends
31 c	Adaman	Canc. 2	A 3	indiff. warm.

February hath xxix. Days.

Full Moon the 4 day, at 2 Afternoon.

Last quarter the 17 day, at 5 in the evening.

New Moon the 20 day, at 1 in the morning.

First quarter the 26 day, at 6 afternoon.

M.D.	W.D.	Holy and Fe- stival days.	Moon Sign.	Planets mutual Aspect.	Inclination of the Weather.
1	D	4. past Epiph	Can. 16	☉ 22. 50	The Month begins with warm air, the time of the year conside- red.
2	e	Candlemas	Can. 29		
3	f	Blaze, B. M.	Leo 12	♂ ☉ 5 p.	
4	g	Gilbertes	Leo 25		
5	a	Agatha, V. M.	Virg. 8		About this time high wi. with a turbu- lent air, with cold rain or snow. Fine pleasant w. a- ♀ with ☾ bow this time is ♂ with ☾ por- ♂ w. ☾ tended with tempe- rate weather.
6	b	Dorothe V. M.	Vir. 20		
7	c	Romwal. Ab	Lib. 2	☾ Apogee	
8	D	Septuages.	Lib. 14	☾ with ☉	
9	e	Apollonia	Lib. 26	☾ ♀ 12 p.	☾ with ☾ por- ♂ w. ☾ tended with tempe- rate weather.
10	f	Scholast. V.	Scor. 8	♂ ☾ 0.	
11	g	Euphrosina	Scor. 20	♂ ♀ 17 p.	
12	a	Term ends	Sagit. 1	☉ 3. 55 ✕	
13	b	Ermenild. qu.	Sag. 14		☾ is with ☾.
14	c	V. lentine	Sag. 26	✕ ♀ ☉ 13 p.	
15	D	Sexagesim.	Capr 9		
16	e	Julianus	Cap 2		
17	f	Finan, B.	Aqu. 5		☾ with ☾ por- ♂ w. ☾ tended with tempe- rate weather.
18	g	Simeon, B. M.	Aqu. 15	✕ ♀ ♂ 7 p.	
19	a	Acea, B.	Pisc. 4		
20	b	Mildredra. V.	Pisc. 18		
21	c	Cimbretta, V.	Aries 2	☾ with ☽	☾ is with ☾.
22	D	Shrove-Sund.	Ari. 16	☾ stat. ad dir.	
23	e	ycarp, B.	Tau. 3	☾ perigeon	
24	f	Shrove-Tues.	Fau. 17		
25	g	Shrove-Wed. day	Gem. 1	S. Matthias	☾ with ☾ Cold winds with rain or snow.
26	a	Alexander.	Ge. 15		
27	b	Serulph. B.	Ge. 29	♂ ☾ ♀ 13 p.	
28	c	Oswald, B. Y.	Can. 13		
29	D	Quadrages.	Can. 26	☉ 20. 56 ✕	

March hath xxvj. Days.

Full Moon the 5 day, at 6 in the Morning.

Last quarter the 13 day, at 11 before noon.

New Moon the 20 day, at 10 in the forenoon.

First quarter the 27 day, at 2 in the morning.

1 d	David, Bish.	Leo 9		Warm open
2 e	Chad. Bish.	Leo 21	☐ 4 ♀ mane	air at the be-
3 f	Ember week	Virg. 4	* 4 ♀ 16 p.	ginning of the
4 g	Adrian, M.	virg 16		Month; but
5 a	Eusebius	virg. 29	☾	soon after
6 b	Frodoline, B.	Libr 11	☾ Apogeeon	some winds
7 c	Sund. Lent	libr. 23	☾ 27. 34 X	with rain fol-
8 d	Felix, M.	scorp. 4		lows.
9 e	40 Martyrs	scor. 16		
10 f	Agapite	scor. 28	☉ in γ	
11 g	Cuniber	sagit. 10	☐ h ☉ 7. p.	About this
12 a	Gregory	sag. 22	♂♂ ♀ Mare	time there will
13 b	Vigan, M.	Capr. 4		be cold nip-
14 c	Sund. Lent	Cap. 17		ping winds,
15 d	Longinus	Cap. 30	☐ h ♀ 12. p.	with snow and
16 e	Alred, Ab.	Aqu. 13		cold rain, and
17 f	Patrick, B.C.	Aqu. 27	☉ 7. 47 γ.	☾ with ☾ some
18 g	Edw. K. M.	Pisc. 12		☾ w. ☾ morning
19 a	Jos. hus. B. M.	Pisc. 26	♂☉ ♀ 14 p.	☾ w. ☾ frosts.
20 b	Cuthbert	Ari. 11	Sun Eclipted	Some showers
21 c	Midlent Sun.	Ari. 17	Δ h ♀ 15 p.	☾ w. ☾ of rain
22 d	Aphrodisius	Tau. 12	☐ h ♂ Mane	about this time
23 e	Theodore	Tau. 27	☾ perigeon	may be expe-
24 f	Zacharius	Gem. 11		cted.
25 g	Lady day	Ge. 25		h is w. ☾ dark
26 a	Will. Norw.	Canc. 9		air.
27 b	Archibal. Ab.	Can. 23		
28 c	Sund. Lent	Leo 6.		The Month
29 d	Victorinus	leo 18		concludes with
30 e	Patrone, B.	Virg. 1	* h ♀ 18 p.	winds and
31 f	Adelme, B.	virg. 13.	☉ 21. 32 γ	rain.

April hath xxx. Days.

Full Moon the 3 day, at 11 in the night.
 Last quarter the 11 day, at midnight.
 New Moon the 18 day, at 7 afternoon.
 First quarter the 25 day, at 1 afternoon.

1	g	Conv. M. Mag.	Vir. 25		The Month be-
2	a	Francis con.	Lib. 7	* 4 4 p.	gins with fine
3	b	Rich. B. Chic.	Lib. 19	with ☿	pleasant wea-
4	c	Palm Sunday	Scor. 1	Apogee on	ther.
5	d	Vincentius	Scor. 13		
6	e	Ethelwold R.	Scor. 25	☉ 27. 23 v	
7	f	Egesippus	Sag. 7	3 4 7 18 p.	Winds, with
8	g	Dufianus con.	Sag. 19		some rain at out
9	a	Good Friday	Capr. 1	☉ in ☿	these days.
10	b	Frithstan B.	Cap. 13		
11	c	Easter Day	cap 26		
12	d	Julius	Aqu. 9		
13	e	Hermegenild.	Aqu. 22	* f ☉ o	Cold dark air,
14	f	Tiburtius	Pisc. 6		with rain or
15	g	Tr. Oswald. B.	Pisc. 20	☿ El. M 2 ☉	hail.
16	a	Tr. S. Alban	Ari. 5	☾ with ☿	☿ is with ☾
17	b	Anicetus	Ari. 20	☿ 14 p. - ☿ w	☾ Moist air
18	c	Low Sunday	Tau. 5	☾ perigeon	with hasty tho.
19	d	Alphege	Tau. 20		☿ with ☾ Fair,
20	e	Ceadwal R.	Gem. 5		☿ w ☾ variable
21	f	Simeon	Ge. 20	☉ 11. 36 v	
22	g	Soter, & c. p. n.	Can. 5		☿ wi. ☾ Cloudy
23	a	S. George	Can. 19		if not rain.
24	b	Mellitus B.	Leo 2		We may expect
25	c	S. Mark Ep.	Leo 15		no great altera-
26	d	Clerus	Leo 28		tion of weather
27	e	Walburge V.	Vir. 10	☿ fl. ad	the latter part of
28	f	Perer Martyr	Vir. 21	Retrogr.	this Month. Fine
29	g	Kather. of Sic	Libr 4	☾ with ☿	April weather to
30	a		Lib. 16	☉ 20. 36 v	the end of the
					Month.

May hath xxxi. Days.

Full Moon the 3 day, at 4 Afternoon.

Last quarter the 11 day, at 11 before-noon.

New Moon the 18 day, at 2 in the morning.

First quarter the 25 day, at three in the morning.

1	b	Phil. and Jac	Lib. 18	(Apogee)	As Ar i/ ends so
2	c	Jubilata	scor. 10		May begins, with
3	d	Invent. Cruc.	cor. 22	♂ ♀ ☉ 11 m	pleasant fine Su
4	e	Monica	Sagit. 4	☉ 14. 27	thiny weather;
5	f	Algive qu.	sagi. 16	* I. ☉ 5 p.	but afterwards
6	g	Ioh Portant.	sagi. 28		about the 6 or 7
7	a	John Beverl.	Cap. 10	♂ ☉ 4 p.	days expect a
8	b	Appar. Mich.	cap. 22		turbulent Air
9	c	Cantate	Aqua. 6		with high winds
10	d	Gordianus	Aqu. 19	☉ 10. II	or thunder, with
11	e	Anthony	Pisc. 2	☉ 10. II	some rain.
12	f	Pancratius	pisc. 15		Pretty fair wea-
13	g	Servatus	pisc. 29		ther at this time
14	a	Boniface	Ari. 14	(with ☉	with some br sk
15	b	Sympna V.m.	Ari. 28	* I. ☉	gales of wind.
16	c	Rogate	Tau. 13	(perigeon	I & ☉ w. (some
17	d	Carah	Tau. 28		☉ w. (hasty
18	e	Evil Bish.	Ge. 14		showers.
19	f	Pudentian. V.	gem. 8	☉ 8. 49 II	
20	g	Holy Thurg	canc. 13		h is with ☉
21	a	Timothy	can. 27	☉ star. ad	
22	b	Juliana	Leo 11	direct.	
23	c	Exaudi	leo 24		
24	d	Term ends	Virg. 7		Some showers
25	e	Urban P.M.	virg 10		of rain may now
26	f	Austen B.C.h.	Libra	with ☉	be expected; af-
27	g	Beda vener.	libr. 13	♂ ☉ ☉	terwards the M.
28	a	Jonas Abbot	libr. 25		will end with
29	b	K. Char. 2 N	Scorp	(Apogee)	fine pleasant
30	c	Pentecost	scor. 13		weather.
31	d	Petronilla V.	Sagit 0	☉ 20 15 II	

June hath xxx. Days.

Full Moon the 2 day, at 6 in the Forenoon.

Last quarter the 9 day, at 6 afternoon:

New Moon the 16 day, at 9 in the forenoon.

First quarter the 23 day, at 6 afternoon.

1	c	Pamphilus M.	Sag. 12	♀ Elo. à ☉	The Month begins with some sweet showers, and pleasant air. Some winds or thunder about this time.
2	f	Ember week	Sag. 25	♂ ♀ ♀ ☉	
3	g	Erasmus B. M.	Cap. 7	♂ ♀ ♀ 4 p.	
4	a	Petroth B.	Cap. 20	♂ ♀ ♀ 3 M.	
5	b	Boniface B. M.	Aqu. 3		
6	☉	Trinity Sund.	Aqu. 15	☉ 28. 58 II	
7	d	Paulus	Aq. 29		Heat and thund. & perig. Some r. and cloudy we. with ☾ Fair ☽ with ☾ red-☽, ☽ w ☾ clouds h with ☾ with some winds.
8	e	Will. B York	Pisc. 12		
9	f	Felicianus M	Pisc. 25		
10	g	Corp. Christi	Ari. 9	♂ ♀ ♂ 7 p.	
11	a	S. Barnabas	Ari. 23	Term begin	
12	b	Cyrinus M.	Tau. 8	♂ ♀ ♀ 9 M.	
13	☉	1 p. Trin.	Tau. 22	☉ 2. 37 ☽	Some rain, or hail with thunder about this time.
14	d	Basil. magnus	Gem. 7		
15	e	Modestus M.	Ge. 22		
16	f	Rich. B. Chic.	Canc. 7		
17	g	Botolph Ab.	Can. 21		
18	a	Mira. &c. M.	Leo. 5		
19	b	Gervasius M.	Leo. 18		The Month ends with winds and some rain and clouds.
20	☉	2 p. Trin.	Virg. 1		
21	d	Walburge	Vir. 15		
22	e	Alban Pre. M.	Vir. 27	☾ with ☽	
23	f	Pawlin B. C.	Libr. 9	♂ h ☉ 6 p.	
24	g	S. Job. Baptist	Lib. 21	☉ 13. 5 ☽	
25	a	Amphibalus	Scor. 3		The Month ends with winds and some rain and clouds.
26	b	Jo. & Paul M.	Scor. 15	h Apogee on	
27	☉	3 p. Trin.	Scor. 27		
28	d	Leo 2 papa.	Sagit. 9	♂ h ♀ 12 p.	
29	e	S. Pet. & Paul	Sag. 21		
30	f	Term ends	Cap. 3		

July hath xxxi. Days.

Full Moon the first day, at 7 Afternoon.

Last quarter the 8 day, at Midnight.

New Moon the 15 day, at 8 afternoon.

First quarter the 23 day, at Noon.

Full Moon the 31 day, at 6 in the morning.

1	g	Ronwald B.	Cap. 16	☉ 19.45 ☽	some rain may
2	a	Vific Mary	Cap. 29	☽ ☉ 5 p.	be expected ab.
3	b	Hyacinth. m.	Aqu. 12		the beginning of
4	c	4 p. Trin.	Aqu. 25		the month, after
5	d	Anselmus	Pisc. 9		we may have
6	e	Sexburga Q.	pisc. 22		some fine wea-
7	f	Demetrius	Ari. 6	☽ with ☽	ther a few days.
8	g	Grainboi. Ab.	Ari. 22	☽ perigeon	About this time
9	a	Edinburgh Q.	Taur. 4	☽ 4 p.	we may expect
10	b	7 Brethren	Tau. 18	* ☽ 12 p.	some hasty show.
11	c	5 p. Trin.	Gem. 2		☽ is w. ☽ with
12	d	Felix & Nab.	Ge. 17	☉ in ♌	☽ w. ☽ thunder
13	e	Anaclet. P.M.	Canc. 1		in some places.
14	f	Bonaventure	can. 15		☽ ☽ w. ☽ Dark
15	g	Swithin B.W.	can. 29		& cloudy, with
16	a	Osmond. B.S.	Leo 13		☽ w. ☽ some sho.
17	b	Alexius conf.	Leo 27		Variable fine
18	c	6 p. Trin.	Vir. 10		weather for ma-
19	d	Ruffinus	virg. 21		ny days, sitting
20	e	Margar. V.M.	Libr. 5	☽ ♌	for the season.
21	f	Daniel	libr. 17		
22	g	Mary Mg'd.	ibr. 29	☾ Apogee	The air is incli-
23	a	Apoll. B.M.	Scor. 11	* ☽ ☉ 10 M.	ned to heat, with
24	b	Christina v.m.	Scor. 25	* ☽ ☽ 7 M.	thunder and
25	c	S. James. Ap.	Sagit. 5	☉ 12. 39 ♏	hail.
26	d	Anna	fagi. 17		Fair and clear
27	e	Pantaleon	fagi. 29		Sunshine wea-
28	f	Sampson B.	Cap. 11		ther these days.
29	g	Martha V.	cap. 24		Winds or thun-
30	a	Abd. & Sen.	Aqu. 7	☽ 11 p.	der.
31	b	Ignatius	Aqu. 21	* ☽ 17 p.	Pleasant air.

August hath xxxi. Days.

Last quarter the 7 day, at 4 in the Morning.
 New Moon the 14 day, at 5 in the morning.
 First quarter the 22 day, at 5 in the morning.
 Full Moon the 29 day, at 5 in the afternoon.

1	a	p. Trin.	Pisc. 4	☉ 19.21 ♀	Rain and winds
2	d	Stephen p. m.	Pisc. 18		about the begin-
3	e	Invent. Srep.	Ari. 2	* ♄ 16 p.	ning, afterwards
4	f	Aristarcus	Ari. 16	(with ♀	expect good har-
5	g	Festum Nivis	Taur 1		vest weather for
6	a	Transl. Christ.	Tau. 15	(perigeon	the most part,
7	b	Donatus B. m.	Tau 29		with a good and
8	c	p. Trin.	Geo. 15		4 with ☾ clear
9	d	Romannus M.	Geo. 27		air
10	e	Lawrence M.	Can. 11		♄ & ♀ w. d some
11	f	Tirus	Can. 25		thunder storms
12	g	Clare Virg.	Leo 9		about this time
13	a	Hippolitus	Leo 22	☿ Elong. M.	☿ with ☾. Moist
14	b	Eusebius	Virg 5	à ☉	with a remission
15	c	10 p. Trin.	Vir. 8	☿ 2. 50 m	of heat.
16	d	Rochus M.	Lib. 1	(with ♀	☿ w. ☾ Variable.
17	e	Tho. of Herts.	Lib. 13		
18	f	Helena ♀	Lib. 25		Great rain and
19	g	Clintank K M	scor. 7	(Apogee	thunder about
20	a	Bernard Ab.	scor. 19	♄ & ♀ o.	this time may be
21	b	Rich. Bish.	sag. 1		expected.
22	c	11 p. Trin.	sag. 14		Saturn and Mars
23	d	Timothy M.	sag. 25		in conjunct. in
24	e	St. Barthol.	Cap: 7	☉ 11.33 m	the sign ♄, the
25	f	Ludovicus	Cap. 19		Ascend of Hol-
26	g	Zepher. p.	Aqu. 2	☉ & ♀ o.	land, Scotland,
27	a	Ruffus	Aqu. 15	☿ 12 p.	&c. it signifies ill
28	b	Augustin Dr.	Aqu. 29	☿ 8 m.	to those places.
29	c	12 p. Trin.	Pisc. 13	☿ sta. ad ret.	Rain and thund.
30	d	For ix. &c.	Pisc. 27	(with ♀	Fair. Great heat
31	e	Adrian B. C.	Ari. 12	* ♄ 16 p.	and thunder.

September hath xxx. Days.

Last quarter the 5 day, at 11 Before noon.
 New Moon the 12 day, at 8 in the evening.
 First quarter the 20 day, at 10 in the night.
 Full Moon the 28 day, at 4 in the morning.

1 f	Giles Abbot	Ari. 26	☉ 19. 20 m	Some rain or
2 g	Adaman Ab.	Tau. 11	*h☉ 7 p.	hail at the be-
3 a	Thodore	Tau. 25	☾ perigeon	gin. of the Mor.
4 b	Transl. Cuth.	Ge. 10		4 with ☾. Fair
5 c	13 p. Tita.	gem. 24		
6 d	Magrus	Canc. 8		
7 e	Transl. Dunst.	can. 21		h with ☾. cold
8 f	Nat. B. Virg.	Leo 5		5 w. ☾. & cloud.
9 g	Gorg nius M	Leo 18	☉ ☿ 8 M.	High win. with
10 a	Nicholas tol	Virg. 1	*☿ ☿ 8 p.	howers of rain
11 b	Jacynthus	virg. 14		about this time.
12 c	14 p. Trin.	virg. 27	☉ Eclipse	☿ is with ☾
13 d	Amatus	Libr. 9		☿ with ☾
14 e	Exals. Crucis	libr. 21	☉. 2. 4 m	
15 f	Ember week	Scor 3	*☿ ☿ 3 p.	Winds and
16 g	Cornel. P m.	scor. 15	☾ Apogee	clouds with
17 a	Steph. & c. M.	scor. 27		some rain.
18 b	Winock M	Sagit. 9	☿ stat. ad	
19 c	15 p. Trin.	sag. 21	direct.	
20 d	Eustatius	Capr. 3	*☿ (•) 0	Dry and windy.
21 e	S. Matthew	capr. 15	*☿ ☿ 6 p.	
22 f	Maurice, M.	cap. 27	☿ ☿ M.	Fire pleasant
23 g	Linus P.M	Aqu. 10		weather firing
24 a	Winebald Ab.	Aqu. 23	☿ El. m. ☉	the season about
25 b	Ceolfride Ab.	Pisc. 17	☿ stat. ad R	his time.
26 c	16 p. Trin.	pisc. 21	☿ ☿ 4 p.	Cold rain.
27 d	Cosin. & D.	Aries 6	☾ with ☿	
28 e	Lioba Abbes	Ari. 21	☿ ☿ ☿ 3 p	Some warm gales
29 f	St. Michael	Taur. 5	☉ 16. 53 m	of wind, and a
30 g	Hierom.	Tau. 20	☾ perigeon	pleasant air at
				the end.

October hath xxxi. Days.

Last quarter the 4 day, at 7 at night.

New Moon the 12 day, at noon.

First quarter the 20 day, at 4 in the afternoon.

Full Moon the 27 day, at 2 afternoon.

11 a	Remigius B.	Gem. 5	☉ 18.52	☾	
2 b	Tho. B. Her.	Ge. 20			☿ with ☾. Fair
3 c	7 p. Trin.	Canc. 4	* 48 15 p.		and temperate.
4 d	Francis	canc. 18	☐ h ☉ 18 p.		☿ with ☾. Some-
5 e	Placidius M.	Leo 1			thing c. drainy
6 f	Fides	leo 15			☿ w. ☾. weather
7 g	Mark, P & C.	leo 28			these days
8 a	Demetrius M.	Vir. 10			
9 b	Dyon Arcop.	virg. 23	Δ 48 5 m.		High winds
10 c	18 p. Trin.	Libr. 5	☾ with ☿		with rain.
11 d	Nichasius	libr. 18	* 88. 17 p.		☿ with ☾. Winds
12 e	Wilfred B. T.	scorp. 0	☉ 29.50	☾	and some hail a-
13 f	Edward	scor. 12	☐ h ☿. 5 m.		☿ with ☾. bout
14 g	Calixtus P. M.	scor. 24	☾ Apogee		this time.
15 a	Ieresa V. M.	Sagit. 5	☉ 2. 50 m.		About the mid-
16 b	Lull. B. Mentz	sagi 17			dle of the Mon.
17 c	19 p. Trin.	sagi 29			may prove in-
18 d	S. Luke Evan.	Cap. 11			different weath.
19 e	Fridiswid. V.	capr. 23			and a good ses-
20 f	Ursula V. M.	Aqua. 6			son for the la-
21 g	Hillarion Ab.	Aqu. 18			borious Husb.
22 a	Cordula v.m.	Pisces 1			Saturn is now st
23 b	Term begins	pisc 15	☾ with ☿		to a Retrograde
24 c	20 p. Trin.	pisc. 29	☐ 88. 7 p.		motion.
25 d	Christ. M.	Ari 14	☉ ☿. 10 m.		Some winds and
26 e	Euarist P. M.	Ari 29	☉ 13. 53 m.		rain near about
27 f	Joao Confess.	Tau 14			this time.
28 g	S. Sim. & Jud.	Tau 29	☾ perigee		
29 a	Eadfine B. C.	Ge. 14			☿ is with ☾ fair.
30 b	Agelnoth B. C.	gem. 9			the M. ends with
31 c	21 p. Trin.	Can. 14	Δ h ☿. 10 p.		some w. and rain

November hath xxx. Days.

Last quarter the 3 day, at 6 in the morning.
 New Moon the 11 day, at 6 in the morning.
 First quarter the 19 day, at 6 in the morning.
 Full Moon the 25 day, at 11 in the night.

1	d	All saints	Can. 28	☉ 19. 56 m	h with ☾ Cold
2	e	Omn. Anim.	Leo 11		and cloudy.
3	f	Winefride V.	leo 25		
4	g	Vital. &c. M	virgo 7	Δ h ☉ 9 p.	♂ with ☾ Cold
5	a	Powder Plot	virg. 20	☾ with ☿	rain or snow
6	b	Leonard	Libr 2	♂ 4 ♀ 3 p.	may be expected
7	c	22 p. Trin.	libr. 14	☉ 26. 0 m	about this
8	d	Sever. &c. M.	libr. 26	☿ 8 ♀ 10 M.	time, with high
9	e	Claud. &c. M	Scor. 8		winds.
10	f	Tryphon	(cor. 21	☾ Apogee	Winds and hail
11	g	Martin B.C.	Sagit. 2	☉ 12 7	
12	a	Martin P. M.	sagi. 14		♂ w. ☾ Variable
13	b	Kilianus B.	sagi. 26	♂ 4 ♀ 3 p.	♂ w. ☾ Moist and
14	c	23 p. Trin.	Capr. 8		a windy air,
15	d	Leopaldus	cap. 20		with some
16	e	Edmond B.C.	Aqu. 2		clouds about
17	f	Thaumarurg.	Aqu. 15	☉ 6. 10 7	the middle of
18	g	Ed. Ecel. pet.	Aqu. 27		the month.
19	a	Pontian P.m.	Pisc. 11		
20	b	Edmon K. M.	pisc. 24	☾ with ☿	About this time
21	c	24 p. Trin.	Aries 8	☿ 4 ♀	we may expect
22	d	Cicely V. m.	Ari. 22	♂ 4 ☉ 3 p.	a warm season,
23	e	Clement P.m.	Taur. 7	& ☿ ☉	and a turbulent
24	f	Chrysogonus	Tau. 22	☾ Perigee	air with some w.
25	g	Kather. Alex.	Gem. 7		♂ with ☾ Fair
26	a	Peter B.M.	Ge. 22		and clear.
27	b	Oda Virg.	Cinc. 7		
28	c	1 Advent.	can. 22	☉ 17. 22 7	
29	d	Term ends	Leo 6		h with ☾ Cold
30	e	St. Andrew	Leo 20		cloudy weather
					with some rain.

December hath xxxi. Days,

Last quarter the 2 day, at 9 in the night.
 New Moon the 11 day, at 2 in the morning.
 First quarter the 18 day, at 7 at night.
 Full Moon the 25 day, at 10 before noon.

1	t	Bibiana V.M.	Virg. 4 Δ δ 9 p.	Cold rain or
2	g	Lucius Rex	Vir. 17	δ is with \odot .
3	a	Cassianus	Vir. 29 \odot with Ω	now at the
4	b	Barbara V.M.	Libr. 12 \odot 23. 29	beginning.
5	v	2 Advent	Lib. 24	
6	d	Nicholas B.C.	scor. 6 δ h δ 13 p.	Much cold w.
7	e	Ambrose Dr.	scor. 18 Δ δ δ 14 p.	with store of
8	f	Concept. Ma.	scor. 29 δ Elo. M. Δ \odot	now or rain is
9	g	Leocad v.m.	sag. 11 \odot Apogee	portended,
10	a	Melchiad. M.	sag. 22	which may
11	b	Damascus.	Cap. 5 \odot in γ	continue the
12	v	3 Advent	Cap. 18 δ h δ 7 p.	δ with \odot most
13	d	Lucia, v.m.	Cap. 30	δ w \odot part of
14	e	Mimtor. Ab.	Aqu. 12 \odot 3. 42 γ	the month.
15	f	Ember week	Aqu. 25	Cold winds
16	g	O sapientia	Pisc. 8 δ star. ad dir.	and frost.
17	a	Lazarus	Pisc. 21 \star h δ 17 p.	Remis. of cold
18	b	Winib. Ab.	Aries 4 δ h δ 3 p.	more snow or
19	v	4 Advent	Ar. 18 \odot δ δ δ	cold. Rain ab.
20	d	Julius	Ta. r. 2 Δ 4 δ 5 m.	these da's
21	e	S. Thomas	Tau. 16	δ w \odot Pretty
22	f	xxx Martyrs	Gem. 1 \odot 11 52 γ	warm for the f.
23	g	V.ctoria v.m.	Gem. 16 \odot perigeon	Winds and
24	a	Adam & Eve	Carc. 1 δ \odot δ 2. p	δ w. \odot rain
25	b	Christ. V.M.	Can. 16	with cold
26	v	S. Stephen	Leo 1	cloudy wea-
27	d	S. John	Leo 15	ther.
28	e	S. Innocent	Leo 29	An <i>Apertio por-</i>
29	f	Tho Cant.	Vir. 12 δ h \odot 13 p	<i>curum</i> to much
30	g	Eustach Ab.	virg. 25 \odot with γ	δ with \odot cold
31	r	Sylvest p.c.	libra 8 \odot 21. 4 γ	with sn. or rai.

J D W L E. 1680.

A N

A P P E N D I X

Unto the Precedent

ALMANACK

For this present Year of mans Redemption, 1680.

Wherein is contained ;

1. A brief Chronology, or a Computation of memorable times.
2. Of the four Quarters of the Year.
3. A Figure of the Revolution, and a brief Judgment of the Year, with the Quarterly Ingress of the Sun into Υ , \odot , \cap , and φ .
4. A description of the Eclipses.
5. A Discourse how the Earth hath an Annual and a Diurnal motion.
6. Excellent Rules to find the hour of the Night, by the Rising, Southing, and Setting, of some of the Fixed Stars.

Useful and pleasant for all those which are desirous
of such a Work.

By T H O M A S F O W L E.

*Cæli enarrant gloriam Dei, & opera manuum ejus annunciat
firmamentum, Psal. xix. 1.*

L O N D O N:

Printed by M.C. for the Company of Stationers. 1680.

A Computation of Memorable Times.

Since	England first received the Christian Faith	1497
	William of Normandy Conquered England	593
	The building of Westminster-Hall	380
	Sr. Pauls Church burnt	594
	London Bridg built with Stone	471
	London Bridg was burnt	468
	Tiling first used in London	433
	The first use of Guns	300
	Printing first used in England	149
	Register Books used in every Parish	141
	The first use of Coaches	125
	Pauls Steeple was burnt down by Lightning	118
	The Building of the Royal-Exchange by Sir Thomas Gresham	115
	The Camp at Tilbury in Essex	92
	The hellish attempt of the Powder-Plot Novemb. 5.	75
	King Charles I. was born Novemb. 19.	80
	The Long Parliament began Novemb. 3.	40
	The Earl of Strafford beheaded	39
	Edge-Hill Fight	38
	Newberry 1. Battel	37
	Newberry 2. Battel	36
	Nasby Fight	37
	Dunbar Fight	30
	Worcester Fight	29
	Dunkirk taken by the English	21
	A free Parliament Convened at Westminster. Apr. 25.	20
	His Majesties happy Restauration	10
	The appearance of three Comets or Blazing-Stars	16
	The last great Plague in London	15
	The Dismal Fire	14
	Peace concluded with the Dutch	7

Of the four Quarters of the Year:

IN the judging of general Accidents, a due method ought to be observed, viz. To demonstrate the Radix, or Foundation upon which an Astrological Judgment ought to be given in Predicting of any Mutation, that shall happen in this sublunary world, and how many figures ought to be erected for the performance thereof.

1. There hath been much Controversie and Dispute amongst the Antients (who were Masters in this Art) concerning the time the Astrological Philosopher ought to take for the Basis or Foundation of his Judgment in Annual affairs: Some would ground their Judgments of Mutations that should happen, upon the Conjunctions of the Planets, others from the Ascendant or first beginning of the Kingdom, Nation, or Common-Weal: and others from Eclipses, &c. But *Ptolomy* who was *Princeps Astrologorum*, the Chief, and Prince of Astrologers in his time, gives us this Rule, *Ex Solis Existencia in Ariete deprehendatur, vernalem qualitatem Cognoscemus*: — by the Sun his entrance into Aries, we are to judge the events and success of the Accidents of the Spring Quarter (that is, by the position of the Heavens for that moment of time when he makes his first ingress into that Equinoctial point) and not without good reason, since the Sun is called *Anima Mundi*, the Soul and Life of the world which is clearly manifested by the encreasing quality of humidity the Earth, and all things thereon do plentifully abound with; at that time the days do then begin to increase and the nights diminish, and all things begin to flourish and appear in their greatest lustre and splendour.

2. Nor is *Ptolomy* singular in his opinion: that the Ascendant of a Kingdom or Nation are to be known from the Scheme of the Suns ingress into Aries, and the other Cardinal points for that Year (respect being had also to the preventionial, and postventionial Lunations that may happen in the same) but the most Learned and Judicious of our Modern Astrologers do also approve of his method as re-

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tional. *Ptolemies* words at large in *Lib. 2. Quadr. Cap. 10.* are to this effect; It seems to me most convenient and natural in the judgments of Annual events, to assume four beginnings, regard being had to the new and full Moon next preventional, especially if thereat either of the Luminaries are Eclipsed, and so give judgment of the state of the Spring-Quarter from the beginning of Aries, of Summer from Cancer, of Autumn from Libra, of Winter from Capricorn, his reason is *Nam ipsas quidem universalis Constitutiones, temporum & modos, &c.* for these general Constitutions, and the manners of them are caus'd by the Sun, whence many that are unskilful in Art do come to the knowledge of future events.

3. *Origanus* he proceeds yet farther, and says, *Non tantum qua cæli forma affluant, &c.* we must observe (if we mean to Prognosticate to gain honor or credit thereby) not only in what form of Heaven the Luminaries move unto, but also in what manner they leave the Cardinal points in their several Conjunctions and Oppositions: that is, to erect three figures for every Quarter, one for the Conjunction or Opposition of the Sun and Moon preceeding the ingress; the second for the time of the ingress it self; and the third for the Conjunction or Opposition succeeding or following the same.

4. But *Haly* and *Guido Bonatus* were of another opinion, and would have the judgment of the year deduced after this manner, viz. if at the time of the Suns ingress into Aries the Ascendant shall be a fixed sign, then that figure shall serve for the judgment of the whole year, and that Planet which is Almuten of the figure shall be Lord of the whole year; but if the Ascendant be a common sign that Revolutionary figure shall continue but half a year, and end at the Suns entrance into Libra, for which moment another Scheme shall be erected for the other half year, and the Planet that is then found to bear the most Rule shall be the Lord of the latter half year: but if the Ascendant be a Moveable Sign at the Suns ingress into Aries, then that Revolutionary Figure shall be of force but till the Sun enters Cancer, and new Schemes are to be erected for the other three Quarters of

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of the year, and their several Almutens elected with this provisor, that the Lord of the first Quarter shall participate, or be Co-partner with the Lord of the second; and the Lord of the second with the Lord of the third, &c. But the Doctrine of *Ptolemy* is generally excepted to be the most Rational: and has not wanted the Approbation of the latest and best Masters in the Art of Astrology (as before was intimated) which method we ought to take, as to erect for every year figures for the Suns ingress into the four Cardinal points Aries, Cancer, Libra, and Capricorn, as also the Lunations preceding, and succeeding the Suns ingress into the same Signs: then we ought to collect the essential dignities and debilities of the Planets, viz. Examine what Planet hath most testimonies of strength in the Ascendant Mid-Heaven, and places of the Luminaries in each of the aforesaid figures, and that Planet so qualified shall be the chief Ruler, or Almuten of the year, and it is the most rational way to elect him so.

What may be judged from a figure of the Annual Revolution of the Sun, we are plainly informed by *Guido Bonatus* an expert Italian, Astrologer and contemporary with *Frier Bacon*, where he says. *per Revolutionem Annorum Mundi scitur quod in illo, Anno sit futurum de bono aut malo utrum tranquillus aut guerre.* &c. We know by the Revolution figures of the world what accidents will happen each year, whether good or ill, peace or war, plenty or scarcity, the condition of Kings, Princes, Nobles, the Religious, and all other sorts and degrees of men and quality of things whatsoever according to the property of man therein, of the dearness and cheapness of divers Commodities, and what increase may be expected from the Fruits of the Earth, &c.

Of the Spring Quarter.

THe Spring Quarter is said to begin when the Sun, that glorious Lamp of Heaven, enters the first point of Aries, the Earth at the same instant possessing the opposite

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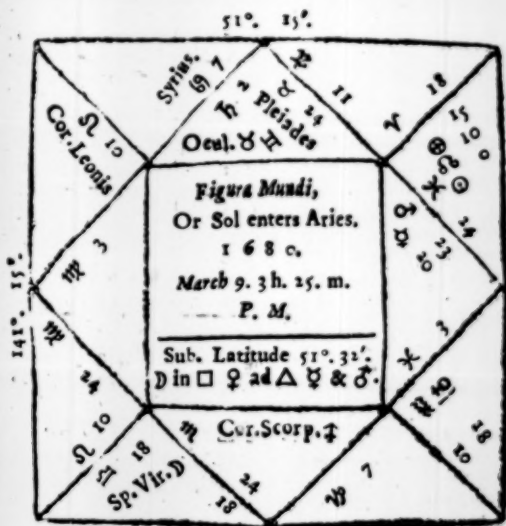
point, viz. the very first scruple of *Libra*: which according to Astronomical Computation happeneth this year in the Meridian of *London* upon *Tuesday* the 9. day of *March*, 25. min. past three of the Clock Afternoon, according to the Tables of Mr. *Vincent Wing*, in his *Astronomia Britannica*, which is thus proved.

<i>Tempus Datum.</i>	<i>Longit. Terræ.</i>				<i>Aphelium.</i>			
	S.	D.	'	"	S.	D.	'	"
<i>Anno Christi, 1680.</i>	3	19	43	5	7	04	36	
<i>Mens. Martii Biss.</i>	1	29	08	19			10	
<i>Dies</i>	9	8	52	15			2	
<i>Hora</i>	3		07	24			0	
<i>Scrup. prim.</i>	25		1	02			0	
<i>Longitudo Terræ Media</i>	5	27	57	59	9	07	04	48
<i>Aphelium Subtra.</i>	9	07	04	48				
<i>Anomalia Eccentri.</i>	3	20	53	13				
<i>Equatio Addenda.</i>		2	2	1				
<i>Verus locus Terræ à Sole.</i>	6	00	00	0				
<i>Hinc Verus locus Sol à Terræ.</i>	0	0	0	0				

That the world had a beginning none but Atheists will deny, but concerning the time of its beginning there hath been very much controversie amongst the Learned; some imagine its beginning to be at the Summer Solstice, others at the Autumnal Equinox; and others conclude it had its first beginning at the vernal Equinox: which last opinion seemeth to agree with the Customs of the *Israelites*, for they accounted *Abid* or *Nisan*, the first month, which was about the same time of the year with our *March* or *April*; and
Josephus

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Josephus Lib. 3. Ant. Jud. testifies that their year took its beginning at the New Moon, hapning in the month of *Nisan* about the Vernal Equinox, and it is evident that at their coming out of *Egypt* they were commanded by God to begin their Year with this month *Abid*; but whether it were to be thus observed in remembrance of their deliverance from *Egyptian* slavery, or to restore again the Customs of their Ancestors, lost by their long continuance in *Egypt*, is uncertain: yet if we compare this order of months which God gave *Moses* a Command to observe, with that in the History of the Flood, we shall find them to agree, but we will forbear to make any further Scrutiny into this Nicety, for if Angels knew not the end of the world, what hopes can we poor mortals have to acquaint our selves with the knowledg of the



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beginning thereof? Yet because it is the opinion of some Astrologers that the world had its first rise: when the Sun was in the first Scruple of Aries and that his Annual Revolution, or returns to the said point are fit times to give Judgment of the events to happen in the following year; we shall therefore present the Reader with a Figure of the Face of Heaven, at the time before mentioned, it being the time of one of the aforesaid Revolutions, and is as followeth in the Meridian of London.

In this Figure we have the common sign Virgo Ascending upon the Culpe of the Horoscope, (which according to *Haly* and *Guido-Bonatus*) shews that the judgment of this years Revolution is to be deduced from two Celestial Schemes, the one at the Suns entrance into Aries, and the other at his entrance into Libra: and observing the Rules of Astrology, we find Mars to be chief Lord of the Spring and Summer Quarters, and he posited upon the Culpe of the eighth house in Conjunction with Mercury Lord of the Ascendant: Mars in an Angle and joyned with Mercury in the figure of the Revolution of the World, demonstrates Wars to be in that year, and occasioned from the nature of that place, or part of Heaven wherein he is situated; his nature being properly prone to Robberies, Thefts, breaking of houses, preying one upon another, he elevates mens spirits, and incite them to smite each other, to fire houses, burn, destroy, and consume by Fire, Houses, Villages, Ships, Cities, and such materials as are Combustible: in this figure we have the Suna going to a Square of Saturn, which signifies many difficulties: sudden fears, unlooked for occasions, and strange matters of the nature of Saturn, who is the general significator of Labour, Disturbance, Anxiety, Melancholly, Poverty, Envy, Treachery, Malice, Disgrace, Unthankfulness, Self-end, Breach of Leagues, &c. and Saturn being occidental, signifies many persons of mean extractions and not Noble by birth, will either exalt themselves, or be exalted by others, such will be the vain glory and sauciness, or pride of many ordinary persons, they will kick with their heels against, or slight and disdain the Nobles, and great persons of those parts they live

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live in : and seeing that Mars and Mercury are in Conjunction, it seems to portend multiplicity of Actions in one kind or other. But because I know that all Astrological deductions are grounded upon conjectural probabilities, I will not insist long upon this subject, neither shall I instance in particulars, but shall only give a touch at general Accidents that are most significant. Mars is now Oriental of the Sun, as if the great ones of the World should still disturb, molest and destroy each other and much strife and division will arise : but what need I speak hereof ? for do we not see already, what great divisions there are in every place, and amongst men of all estates and degrees ; when was malice and hatred so predominant as now, especially amongst great ones of the World : and is not Pride and Covetousness in all our Habitations : Yea is not Love, and Amity, and Friendship quite banisht the earth ? in a word, do we not Labour, and Turmoil to destroy one another and care not how many we ruin to enrich our selves ? yet when was there ever more profession and more Pharisaical Hypocrisie ? when ever less Practice, and less Charity ; but the Tree is best known by its Fruits, for where Charity is wanting Religion is but dead, it profiteth nothing without Charity ; but where is this precious jewel to be found ? certainly wickedness is at the height, and I verily think that the Kingdom and Power of Antichrist will decay and come to ruin in a short time, for undoubtedly the night of this evil World is far spent, and the day light will suddenly dawn and break forth, to expel and dissipate those mighty fogs of error and outward shews, which for a long time have so bewitched the blind and ignorant, after which times (and before the Consummation of the World) shall be a more peaceable and quiet age, (as the Holy Prophets have long since foretold) wherein they shall break their Swords into Plough Shares, and their Spears into Pruning Hooks ; Nation shall not lift up a Sword against Nation, neither shall they learn war any more, but they shall set every man under his Vine, and under his Fig-Tree, and none shall make them afraid, *Micah* iv. 3, 4. also the Prophet *Isaiah* speaking of the mystical *Hierusalem*, and perfect State of
Christis

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Christianity, he saith; for Brass I will bring Gold, and for Iron I will bring Silver, and for Wood Brass, and for Stones Iron: I will also make thy Officers Peace, and thine exactors Righteousness; violence shall be no more in thy Land, wasting nor destruction within thy Borders, but thou shalt call thy walls Salvation, and thy gates praise. *Isa. lx. 17. 18.* to which purpose he alludes Chap. ii. besides many other places are found both in the Prophets and Revelations which do promise this unexpected happiness, which the Lord in his good time will accomplish.

This Season is naturally Hot and Moist and is of the sanguine Complexion, but I suppose it will be more Moist and Windy than ordinary, because Mars and Mercury be in Conjunction in a moist and windy Sign, and they will often change the quality of the Air, and corrupt the winds.

The Summer Quarter will begin this year upon the 10. day of June being *Thursday*, at 34 min. past Five a Clock in the Afternoon, according to Mr. *Gadburies* Ephemerides, at which time our earthly Orb inclining Southward to the Sun will volve and remove us our Northern Inhabitants to the greatest portion of day Arch, and least portion of night Arch making the longest day, and shortest night in the Year.

At which time Sagittarius ascends: Jupiter Lord of the Ascendant in Conjunction with Mars, Lord of twelfth, also Venus and Mercury in Conjunction in the seventh House of Heaven, and all those four Planets in the Sign Gemini opposite to the Ascendant; it signifies some secret Conspirations how to dispose and order things in controversy: Saturn is in the eighth house in square to the Moon in the fourth, and be applying to a platick Conjunction with the Sun, which bodes no good to the common people: Touching the state of the Weather this Quarter, it will be inclined to some Thunder Storms with high boisterous winds: with Rain or Hail; many other things may be noted by this position, but I will leave it to others to judg thereof.

Autumn or Harvest Quarter begins at such time as the Sun toucheth the first point of Libra, or more real when the Earth enters the first min. of Aries, hath volved herself at right Angles to the Sun, and so receiveth a like portion

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tion of light and darkness, which either way taken falls out this year on *Sunday* the twelfth day of *September* 34 min. past Nine of the Clock in the Forenoon.

At the same time aforesaid the Sign *Scorpio* Ascends *Mars* Lord thereof in the Ninth House with *Saturn*, and both *Saturn* and *Mars* have lately been in Conjunction: Signifieth great difference in Religion, *Jupiter* is posited in the Eighth House: *Venus* the Moon and *Mercury* in the Eleventh in Conjunction with the Sun: *Mercurius in undecimo domo Constitutus significat commodam & utilem amicitiam qui alter alteri benefacere studebit. Origanus 477.* I wish we may see this fully verined, and that every man may study others good, and endeavour after mutual friendship; and not devour and destroy one another, not caring how many we ruin to enrich our selves, as too many of late made it their chief business, to the great scandal of their Profession, and the damage of many an honest man. This Quarter is like to prove wet with high Winds, and especially after the ingress: but more particular for the weather I refer you to the Kalender part.

Winter Quarter begins this Year on *Friday* the Tenth day of *December* about Nine a Clock in the Night, at which time our Earthly Globe by its Circumrotation, hathvolv'd it self to the greatest Northern Inclination, whereby we her Inhabitants being furthest deflected from the Suns Ray, receive least portion of the suns light: causing our Shortest day and Longest night in the Year. *Leo* then Ascends, the Sun, *Venus* and *Mercury* in the Fifth House of Heaven: *Saturn* in the Eleventh House: *Mars* in the Second in Trine to *Mercury* and *Venus*, & in the Tenth House in the City Sign *II* gives the noble Inhabitants thereof great Riches, Honour, Dignities, and Preferments, and the Moon in the Fourth signifies great increase to the Husbandman or Country Farmer. The Weather this Quarter is like to prove very Cold with store of Frosts and Snow, and also High Winds, and thus much for the Four Quarters of the Year,

Of the Eclipses this Year.

IN this Year there will be but two Eclipses, and both of them will be of the *Sun*:

The First is upon the twentieth day of *March*, at our Ten of the Clock in the Morning, the *Sun* will suffer an Eclipse in the Eleven Degrees of *Aries*, and happens near the South Node of the *Moon*, and therefore in it self will be very great, but it will not appear so unto us in these Islands, and yet we may in some measure (if we be diligent) behold it, though the noble *Argol* say no. It will be a visible and total Eclipse unto such as Inhabit the South parts of *America*, the Holy Island, the Cape of *St. Vincenss*, &c. and therefore both in its Observation and Effects, the most to be regarded by them.

This Eclipse happens near the Cuspe of the Eleventh House, *Mercury* being in Conjunction with the Luminaries the same time, being lately separated from the Conjunction with *Mars*: and *Saturn* casting a malicious Square Platick, to the Luminaries, and also a Square to *Mars*; we have *Jupiter* Lord of the Angle preceeding, viz. the tenth, and he posited in *Taurus* in the Eleventh, we see the Sign wherein the Eclipse is in *Aries*, and *Mars* Lord of that Sign in *Aries*, all bestial Signs, or having the form of beasts, viz. the Ram, Sheep, Bull, or Cow, the Angle succeeding the Eclipse, viz. the Ascendant we have *Cancer*, a watery Sign, the *Moon* Governess of that Sign in *Aries*, and *Saturn* in the same Sign *Cancer*, these do import a rot of Sheep, and a murrain or great decay of Horses, Oxen, and that kind of Cattel, and whereas *Saturn* is in *Cancer* which naturally hath signification of the Sea, and great Rivers, I do from thence predict many Sea Fights, much Pyracy at Sea, much damage by waters, by floods, both Land floods, and high tides, and as *H* is posited in *Cancer* near the Ascendant in Quadrature to the *Sun*, I judg much affliction and loss unto those poor men, who are either Fisher men, or live near the

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the Sea Banks, or dwell in moyst and boggy places. Many other things might be noted, but the Eclips being not to be much seen of us? I pass it by, for I do not love to fish in troubled waters.

The Second Eclips of the *Sun*, happens in *September* the twelfth day, at our Eight a Clock at night: this defect falls in the beginning of the Equinox; as is no way to be seen of us because both the *Luminaries* will be beneath our Horizon, before the Eclips begins: but to such as shall Sail or Navigate near the Port of *St. Peter*, the Island of *Paxaro*, &c. it will appear a very great Eclips, and unto those parts may prove of an astonishing signification and portent.

There can be no Full *Moon* Eclips this Year because those both of the *Sun* are Central, and the one of them happens before the *Sun*s Apogee, and the other after it.

On the twentieth day of *August* this Year, is Celebrated an unusual Conjunction of the two unfortunate Planets, *Saturn* and *Mars*, in the Nineteen Degrees of the Coelestial Crab, it is worthy the observation and consideration not only of Astronomers, but Astrologers also: for if the one can tell you where it is, the other must tell you what it means or signifies; and without the knowledge of the latter; the former is of no advantage to mankind: the time of this Conjunction according to Mr. *Galburter* Ephemerides is at noon upon the twentieth day of *August* aforesaid, *Mars* being Elevated in respect of Latitude above *Saturn*: and *Mars* hath most dignities in the Sign where the Conjunction happens, at the time thereof it happens in the Eighth House of Heaven, called by Astrologers *Domus Mortis*, the House of death; and *Mars* having most dominion in the Sign, and is Lord of the Ascendant also, he usually by his influence stirs up amongst men wars, tumults, intestine hatred, dissensions, and much violence, imprisonments, banishments, sudden death, the wrath and displeasure of men in the highest degree; Tertian Feavours; and divers diseases Proceeding from the Corruption of blood; many Robberies and Man-slaughters, Law Suits, Duels, burning of Houses,

Hou'es, &c. in the air he (produces or) stirs up Thunder, and Lightning; unwholsome or infectious winds, and notable droughts; in the Sea expect terrible Shipwracks, and tempestuous violent storms; he dries up Rivers, and signifies a dearth of Corn, in fine *Mars* being a Planet of malignant Influence, and being Ruler of Eclipses or Conjunction, nothing but mischief can rationally be expected to follow: the Conjunction being in the watery triplicity, this portend the death of the most inferiour Common sort of people; Also Wars, &c. Destruction of Fish and Fowl, and all such Creatures that live in or near the Waters,

Of the Earth which we Inhabit, and how it hath an Annual and a Diurnal motion which is proved by this following Discourse and the Sun is placed in the Center.

THE *Sun* according to the rational Hypothesis of *Copernicus* is placed in the Center of the planetary System, there may nevertheless be two Hypotheses hence constituted, the allowing the *Sun* a motion, about the Earth, carrying along with him the several Orbs of the Planets, the other denying him any local motion at all, but placing the Earth between the Orbs of *Mars* and *Venus* movable as the rest about the *Sun*. Both these, as well one as the other have not wanted their maintainers, as for the Coelestial appearances they are represented by both in the same manner, but if we should consider the Arguments brought on both sides, we shall find that reason more approves of the Latter, which with these Arguments we will endeavour to confirm.

1. That hereby a needless multitude of Orbs and motions are taken away; for what probability is there, that in *Tyches* System, the *Sun* should carry about in his Annual motion all these several Orbs with him, whereof some are far greater than his own, and thereby should make such

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a perplexity of motions, as would almost exceed the old conceits of solid Orbs; and that he should laboriously condemn the old Astronomy for this very perplexity that follows upon his suppositions; for the solidity of the Heavens being denied, the Planets would move in such intricate spires and tortuous lines, as would not in any wise be Conformable to the simplicity of motion ordained by the Creator.

2. If the Earth should stand, and the Epicycles move, either according to *Ptolemy* or *Tycho*, there must of necessity be assigned to these Epicycles a double libration, but by the motion of the Earth, all the Orbs are found to have a constant Inclination to the Ecliptick.

3. As by the diurnal motion of the Earth supposed, that great and ineffimable swiftness of the fixed Stars, (of which anon) is taken away, so by the Annual motion of the Earth, is made up that slow motion of the fixed Stars, by some Authors called the precession of the Equinox; and with more probability is that motion attributed to the Earths small body, than to such a vast unmeasurable Sphere.

To these also may many things be added, deduced from numeral and harmonical pulchritude, and to these something may be attributed, as in an even trutination, sufficient to cast the Scales, though of themselves they are not very ponderous.

These are drawn from periodical quantities of the Planets motions, from their intervals of distances from the Sun, and from the magnitudes of their bodies, for these grow lame, imperfect, and disproportional, unless we allow the Earth her Orb betwixt the Orbs of *Mars* and *Venus*, and so both their periods do agree (every one the more nearer the Sun the swifter in motion) one to another and proportionable to their distances.

And their distances which *Kepler* conceives to be deduced from the affections of regular bodies, do correspond to these speculations, yea, the magnitudes as far as we can

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can conjecture by the help of the Telescope, and by their computed and observed distances, are no obstacle, but rather an inducement to us to think that the Earth is situate among the Planetary Orbs.

And if we approve of *Keplers* Physical Speculations concerning the causes of the Planets motions, this opinion will be fully confirmed, for what likelihood is there that the Sun, the Fountain of motion, and common Node of the Planetary Systems, should receive the laws of his motion from the Earth, a Body so far less than himself.

The Annual motion of the Earth being thus confirmed, the Diurnal motion will follow of it self, and will be denied by none, except those who will deny the vicissitude of days and nights every twenty four hours, which is evident to all the Earthly Inhabitants except the Polars.

But this Diurnal motion more affecting the sense of the vulgar, is more subject to contradiction, insomuch that many are induced by the seeming absurdity of this, to deny also the other; but for the satisfaction of these we shall produce some Arguments, not drawn from Astronomical or Geometrical Speculations, but from Nature herself, by which we shall prove not only a possibility, but even a probability of this motion.

The greatest Objection the *Anti-Copernicans* can make against us, is from the position of *Aristotle*, that all heavy things cast upwards do fall Perpendicularly upon the same place of the Earth; in our handling of which it will be necessary to consider the true ground of the motion of heavy things which are these.

Every Corporal substance, so far as it is Corporal, is apt to rest in every place, in which it is placed alone, without the Sphere of Activity of any body which hath an affinity thereto.

Gravity is a Corporeal affection, common to two Bodies of the same nature, whereby they desire a Union and Conjunction, so that in the descent of a Stone the Earth more Attracts th: Stone, than the Stone it self tends thereto.

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All Bodies endued with Gravity do not tend to the Center of the Earth as the Center of the World, but as the Center of a round Body of the same nature; and whether-soever the Earth is moved either by outward obedience to the Creators will, thither also will those heavy things which are placed within the Sphear of this Attracting power naturally tend. It is hereby evident, that this Observation of heavy things falling Perpendicular cannot any way disprove the motion of the Earth, the Circumsfused Air with all things therein, following precisely the motion of the Earth, by reason of their vicinity to the Attracting Body; nor would any thing let fall from the top of *Tenariffe* or some higher Hill (if any such be) upon the Earth, carry any thing in its descent from this Perpendicularity; the Line of its motion bearing so small a proportion to the Earths Semidiameter. But if any thing could be imagined to be placed so high in the Air that its distance from the Earths Superficies, would bear a sensible proportion to the distance of the Superficies from the Center, it would not so plainly follow the motion of the Earth; but unite its resisting power with the Attracting power of the Earth, but nobody being so far elevated, our Experience cannot confirm this Reason, which nevertheless is demonstrative in it self, and doth with some limitation preserve the Position of *Aristotle* untouched.

But there do not want of those who will think, yea, and affirm the Earths motion about its own Axis too Rapid and Swift, for that it supposeth the whole Circumference of the Earth to be moved about in twenty four hours, which is (according to the ordinary Dimension a Mile to a degree) every hour nine hundred Miles, every minute fifteen Miles, every second (which almost equals the beating of a Pulse) a quarter of a mile; now say they, if this swift motion should be granted, it could not be but we should perceive it, and besides it seems impossible such a dull heavy Body should have such a swift motion.

But to those it may be answered that the dulness and heaviness (as it is called) of the Earths Body, cannot any way hinder its mobility, for we know it to be Round and Com-

pasted, and so fit for motion, and what have the Planets more we boast of? take from them their Solid Orbs, and it is not Intelligences, but Providence that must guide them, and we shall shortly prove them and the Earth to consist of Similar or Analogal parts, and then what ground will there be for this Objection?

But those that think this motion impossible, by reason of the swiftness, I shall need to Confute no otherwise than by telling them how by seeking to avoid one seeming absurdity do manifestly fall into a real one; for by these means should the vast Sphear of the Fixed Stars be tyed to run about the Earth every twenty four hours, a motion so far beyond our imagination, that by this and other conceits we have just cause to think the old Astronomers dreamed of nought but miracles above the Moon.

But my time for the present gives me not leave to examine every particular, the rest I must reserve to some other opportunity, which if it shall please God (the disposer of all our intentions) to afford me, I shall indeavour to confirm this motion of the Earth from Geometrical, Astronomical, and Physical Arguments; I shall borrow from the learned *Kepler* some Optical Evidences, whereby to shew (those that depend upon their sense) why the Heavens seem to move and not the Earth.

And since it is affirmed by some that it is not any Science, but Philosophy which must give solution to this Question, I shall out of Philosophy it self seek and (I doubt not) find my helps; I shall elude the Arguments of the famous *Rheita*. and divest the specious conceits of *Fromundus* and *Merinus* of their *Aristotelian* Embroidery.

And in the mean time let those who so much defend that the Center of the World hath the power of Attracting all heavy things, let those I say consider and tell me how this Mathematical Point (for it is no other) wanting both Longitude and Latitude, yea, any Magnitude, and being but only known by imagination, can have such a force as is attributed to it, and how things natural can have a Sympathy to that which is nothing.

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But a greater task is put upon us, by those who are drawn to a contrary Opinion, by their Observance of the Holy Scriptures, and their acceptance of them for the Deciders of this Controversie, for these taking hold of that Edict, that it is not tollerable for Philosophy to determine any thing whose contrary holds in Divinity, do therefore condemn this Opinion as disconsonant to Sacred Writ, and so not to be tolerated.

But as for those Sacred Monuments they are so far from affirming any thing contrary to our Opinion; that they rather confirm it, as when they tell us of the Suns Rising and Setting, standing still and going backward, when they tell us of the Earth being founded upon the Seas, that her Foundations are firm and cannot be moved, they only inform our Sense and not our Judgment; for all those things are true to the Sense, neither can those who are not indued with a deeper tincture of knowledg otherwise perceive their meaning.

But there is a great deal of difference whether we accept of things for true, as our Sense presents them to us, or whether we go about on true grounds of Reason to detect and banish those manifold fallacies which may happen to that Noblest of Sciences; whereof the latter as it belongs to the Artist alone, who from the perpetual and infallible Rules of the Opticks can fetch a discovery of these appearances; so the other, as it is common and obvious to the Sense, is promiscuously taken; and this not only in human Arts, but also in those Sacred Books which are our Guides to Salvation.

To exemplifie this, would take up too much of our narrow room, and besides would (to the more Ingenious) be superfluous, who already know that the Sacred Scriptures are not always literally to be Interpreted, and then least of all when they mention any thing not consistent with their purpose of Edifying us, and informing us of the means of our Salvation, but subject to the jurisdiction of other Arts and Sciences; for then they speak with latitude, and in such a manner as may best inform the outward apprehension; as when in 1 Kings vii. 23. and 2 Chron. iv. 2.

they deliver the Brédth or Diameter of the Molten Sea to be ten Cubits, and the Circumference to be thirty Cubits, they speak only in Round Numbers, and near the truth; for this no Mathematician will ever grant, knowing by true and Apodeictical Arguments that the Diameter is less in proportion to the Circumference than ten to thirty.

More of these might be reckoned if more were needful, neither do I cite this with intention any thing to derogate from the worth of that Sacred Book (for why should we vile Creatures murmur against the Spirit of God?) but to shew that in all things impertinent to their purpose, they do not every where regard that preciseness which is requisite in him that makes those Arts his subject.

Let those therefore who are touched with the sense of Piety, or moved with the Authority of that Edict of the Council of Trent, which *Rhesia* hath set in the fore front of his Book, as a scare Crow to fright his Reader, from siding against him; let those I say either unbend their knees before that Idol of literal Interpretations, or at least cease to disturb our free conceits, with their impertinent clamours.

And as for those whose apprehensions extends not so far, as to consider the force of our Arguments, let them rest in the information of their own Sences, and retiring from wading in these mysterious depths of nature, only mind their own affairs, and observe the limits of their profession; and be they sure that in those limits, they shall find room enough wherein to build a Theater; and to Act their Parts in the contemplation of their Creators Glory and Omnipotence.

Therefore with the Learned *Kepler* I thus conclude, that in Divinity, Authorities, in Philosophy, Reasons are to be considered; I esteem *Lactantius* who denied the Earth to be Round, I reverence *St. Augustine*, who granted the Rotundity, denied the Antipodes, I prize the Modern Divines who granting these, deny its motion, but most of all I adore the Truth, which (without derogation from the Authority of those Learned Doctors) teacheth us not only the Earth

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is Round, and Inhabited by Antipodes, but is also moved about the Sun, and about her own Axis, by an Annual and Diurnal motion.

The Explanation and Use of the following Tables.

IN the First Table, in the first Column thereof you have the names of twenty nine of the principal Fixed Stars.

In the second Column you have the Oblique Ascension of those Stars : In the third Column you have their Right Ascensions, and in the fourth Column their Oblique Descension, all in hours and minutes.

In the Second Table you have the Suns Right Ascension in hours and minutes every other day in the Year, now if you Subtract the Suns Right Ascension from the Stars Oblique Ascension, the remainder will be the time of their Risings, Subtract also the Suns Right Ascension, for the day given, from the Right Ascension of the Stars, and the remainder will be the time of their Southings : and if you Subtract the Suns Right Ascension from the Stars Oblique Descensions, the remainder is the time of their Setting.

Example, suppose that upon the twenty ninth day of July this present Year, I desire to know when the *Scorpions* Heart Riseth, Southeth and Setteth : I look in the second Table for the Suns Right Ascension the ninth day of July, and I find seven hours and fifty seven minutes ; which Subtracted from the Oblique Ascension of the *Scorpions* Heart, twelve hours and forty four minutes, there remains four hours and forty seven minutes, being the time of that Stars Rising, the Right Ascension of the same Star is sixteen hours and nine minutes, from which Subtract seven hours and fifty seven minutes, the Suns Right Ascension, and the remainder is eight hours and twelve minutes is the time of Star coming to the Meridian or South Point ; the Oblique Descension of that Star (under the title *Set*) is nineteen hours and thirty four minutes, from which Subtract seven hours and fifty seven minutes, and the remainder is eleven hours thirty seven minutes, is the time of that Stars Setting,

When

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When the Ascension or Descension of the Stars are less than the Suns Right Ascension, you are to Add twenty four hours thereunto that Subtraction may be made.

When the remainder is less than twelve hours (as in the Example) it shews the time after Noon: but when the remainder is more than twelve hours, cast away twelve hours, and the residue is the time after Midnight, or in the Morning.

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A

A most Useful Table, by which is known the Rising, Southing, and Setting, (and Consequently the hour of the night,) of twenty nine of the principal Fixed Stars to be used with the Table of the Suns Right Ascension.

Names of the Stars.	Rise.		South		Sets.	
	h.	m.	h.	m.	h.	m.
The bright Star of the Wh. T.	20	18	0	27	4	34
The Girdle of <i>Andromeda</i> .	14	50	0	51	10	52
The former Horn of <i>Aries</i> .	17	58	1	35	9	12
The South foot of <i>Andromeda</i> .	Rise not		1	43	Sets not	
The Head of <i>Medusa</i> .	Rise not		2	46	Sets not	
The bright Star in <i>Perseus</i> Side.	Rise not		2	49	Sets not	
The bright Star of the 7 Stars.	19	15	3	27	11	41
The Bulls Eye, or <i>Aldebaran</i> .	20	53	4	17	11	43
The <i>Goat</i> .	Rise not		4	52	Sets not	
The left Foot of <i>Orion</i> .	23	45	4	58	10	13
The North Horn of <i>Taurus</i> .	20	8	5	5	14	2
The former Shoulder of <i>Orion</i> .	22	36	5	7	11	38
The middle Star in <i>Orions</i> Gir.	23	28	5	19	11	12
The right Shoulder of <i>Auriga</i> .	Rise not		5	35	Sets not	
The Greater Dog-Star.	1	59	6	30	12	1
<i>Castor</i> .	21	27	7	13	16	57
The lesser Dog-Star.	0	50	7	22	13	54
<i>Pollux</i>	22	23	7	25	16	26
The Lions Heart.	4	37	9	50	17	4
The Lions Tail.	6	2	11	32	19	2
The Virgins Girdle.	7	10	12	38	19	6
The Virgins Spike.	9	57	13	7	18	18
<i>Arcturius</i> .	2	21	14	0	22	0
The South Ballance.	6	51	14	32	19	14
The Scorpions Heart, <i>Antares</i> .	12	44	16	9	19	34
The Head of <i>Hercules</i> .	9	36	16	59	0	19
<i>Fomabant Aquarius</i> .	20	8	22	39	1	10
The first Star in <i>Pegasus</i> Wing.	15	3	22	48	6	0
The Head of <i>Andromeda</i> .	15	4	23	51	8	39

A Table shewing the Right Ascension of the Sun for every other day this Year 1680.

Days	January.		Febr.		March.		April.		May.		June.	
	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.
1	19	34	21	42	23	30	1	23	3	16	5	21
3	19	43	21	50	23	37	1	32	3	24	5	29
5	19	51	21	58	23	44	1	38	3	32	5	38
7	19	59	22	5	23	51	1	45	3	40	5	46
9	20	8	22	13	23	59	1	52	3	47	5	54
11	20	16	22	21	0	6	2	0	3	56	6	2
13	20	25	22	28	0	14	2	7	4	4	6	11
15	20	33	22	36	0	21	2	14	4	12	6	19
17	20	42	22	43	0	28	2	22	4	19	6	28
19	20	50	22	51	0	35	2	29	4	28	6	36
21	20	58	22	58	0	42	2	37	4	36	6	44
23	21	6	23	6	0	50	2	45	4	44	6	52
25	21	14	23	13	0	57	2	53	4	52	7	0
27	21	22	23	22	1	4	3	0	5	1	7	9
29	21	30	23	28	1	12	3	8	5	9	7	17
Days	July.		August.		Septem.		October.		Novem.		Decem.	
	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.
1	7	25	9	27	11	20	13	9	15	9	17	18
3	7	33	9	34	11	28	13	16	15	18	17	26
5	7	41	9	42	11	36	13	24	15	26	17	35
7	7	49	9	49	11	42	13	31	15	34	17	44
9	7	57	9	57	11	49	13	39	15	43	17	53
11	8	5	10	4	11	56	13	47	15	51	18	2
13	8	13	10	11	12	4	13	54	15	59	18	11
15	8	21	10	19	12	11	14	2	16	8	18	20
17	8	29	10	26	12	18	14	10	16	16	18	29
19	8	37	10	33	12	25	14	18	16	25	18	38
21	8	45	10	40	12	33	14	25	16	34	18	47
23	8	52	10	47	12	40	14	33	16	43	18	56
25	9	0	10	55	12	47	14	41	16	51	19	4
27	9	7	11	2	12	54	14	49	17	0	19	13
29	9	15	11	10	13	2	14	57	17	9	19	22

